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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,912	12/29/2003	Doo Hyun Kim	11037-207-999	6790
24341	7590 06/27/2005		EXAMINER	
MORGAN, I	LEWIS & BOCKIUS,	LLP.	KAMEN, NOAH P	
2 PALO ALTO			ART UNIT	PAPER NUMBER
3000 EL CAM				
PALO ALTO,	CA 94306	•	3747	

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			517
	Application No.	Applicant(s)	
	10/747,912	KIM, DOO HYUN	
Office Action Summary	Examiner	Art Unit	
•	Noah Kamen	3747	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply sis specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statt Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of th d will apply and will expire SIX (6) MC ute, cause the application to become A	n reply be timely filed irty (30) days will be considered timely. NNTHS from the mailing date of this common ABANDONED (35 U.S.C. § 133).	unication.
Status			
1) Responsive to communication(s) filed on	·		
2a)⊠ This action is FINAL . 2b)☐ Th	nis action is non-final.		
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the me	erits is
closed in accordance with the practice under	r <i>Ex parte Quayl</i> e, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1,3,4,6-8,10,12,13,15 and 17</u> is/are	pending in the application		
4a) Of the above claim(s) is/are withdr	rawn from consideration.		
5) Claim(s) is/are allowed.	•		
6)⊠ Claim(s) <u>1,3,4,6-8,10,12,13,15 and 17</u> is/are	rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawin	g(s) is objected to. See 37 CFR 1	.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119		·	
 12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 		§ 119(a)-(d) or (f).	
2. Certified copies of the priority docume		Application No	
3. Copies of the certified copies of the pr	iority documents have bee	n received in this National Sta	ge
application from the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	st of the certified copies no	ot received.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
 Dotice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		o(s)/Mail Date Informal Patent Application (PTO-15	2)
Paper No(s)/Mail Date	6) Other: _	· · · · · · · · · · · · · · · · · · ·	-

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 4, 6-8, 10, 12, 13, 15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johansen (944,195) in view of Montresor (5676097). Johansen shows all of the recited elements except for two crankshafts. Montresor discloses (col.3, lines 58-60) that two crankshafts may be used in a double acting engine so as to provide two take off points and that the pads may be lightened. It would have been obvious to one of ordinary skill in the art to use two crankshafts in Johansen for the advantages set forth in Montresor.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noah Kamen whose telephone number is 571 272 4845. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571 272 4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Noah Kamen Primary Examiner Art Unit 3747